Amendment to H.R. 1806 Offered by Ms. Eddie Bernice Johnson of Texas

In title II, add at the end, the following new subtitle:

1 Subtitle B—STEM Opportunities

2 SEC. 211. PURPOSE.

3 (a) IN GENERAL.—The Director, acting through the
4 Federal science agencies, shall carry out programs and ac5 tivities with the purpose of ensuring that Federal science
6 agencies and institutions of higher education receiving
7 Federal research and development funding are fully en8 gaging their entire talent pool.

9 (b) PURPOSES.—The purposes of this subtitle are as10 follows:

11 (1) To promote research on and increase under-12 standing of the participation and trajectories of 13 women and underrepresented minorities in STEM 14 careers at institutions of higher education and Fed-15 eral science agencies, including Federal laboratories. 16 (2) To raise awareness within Federal science 17 agencies, including Federal laboratories, and institu-18 tions of higher education about cultural and institu-

19 tional barriers limiting the recruitment, retention,

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promotion, and other indicators of participation and
 achievement of women and underrepresented minori ties in academic and Government STEM research
 careers at all levels.

(3) To identify, disseminate, and implement 5 6 best practices at Federal science agencies, including 7 Federal laboratories, and at institutions of higher 8 education to remove or reduce cultural and institu-9 tional barriers limiting the recruitment, retention, 10 and success of women and underrepresented minori-11 ties in academic and Government STEM research 12 careers.

13 (4) To provide grants to institutions of higher 14 education to recruit, retain, and advance STEM fac-15 ulty members from underrepresented minority 16 groups and to implement or expand reforms in un-17 dergraduate STEM education in order to increase 18 the number of students from underrepresented mi-19 nority groups receiving degrees in these fields.

20 SEC. 212. FEDERAL SCIENCE AGENCY POLICIES FOR CARE-21 GIVERS.

(a) OSTP GUIDANCE.—Not later than 6 months
after the date of enactment of this Act, the Director shall
provide guidance to Federal science agencies to establish
policies that—

1	(1) apply to all—
2	(A) intramural and extramural research
3	awards; and
4	(B) primary investigators who have
5	caregiving responsibilities, including care for a
6	newborn or newly adopted child and care for an
7	immediate family member who is sick or dis-
8	abled; and
9	(2) provide—
10	(A) flexibility in timing for the initiation of
11	approved research awards;
12	(B) no-cost extensions of research awards;
13	(C) grant supplements as appropriate to
14	research awards for research technicians or
15	equivalent to sustain research activities; and
16	(D) any other appropriate accommodations
17	at the discretion of the director of each agency.
18	(b) UNIFORMITY OF GUIDANCE.—In providing such
19	guidance, the Director shall encourage uniformity and
20	consistency in the policies across all agencies.
21	(c) ESTABLISHMENT OF POLICIES.—Consistent with
22	the guidance provided under this section, Federal science
23	agencies shall maintain or develop and implement policies
24	for caregivers and shall broadly disseminate such policies
25	to current and potential grantees.

1 (d) DATA ON USAGE.—Federal science agencies 2 shall—

3 (1) collect data on the usage of the policies
4 under subsection (c), by gender, at both institutions
5 of higher education and Federal laboratories; and
6 (2) report such data on an annual basis to the
7 Director in such form as required by the Director.
8 SEC. 213. COLLECTION AND REPORTING OF DATA ON FED9 ERAL RESEARCH GRANTS.

10 (a) Collection of Data.—

11 (1) IN GENERAL.—Each Federal science agency 12 shall collect standardized record-level annual infor-13 mation on demographics, primary field, award type, 14 review rating (as practicable), budget request, fund-15 ing outcome, and awarded budget for all applications 16 for merit-reviewed research and development grants 17 to institutions of higher education and Federal lab-18 oratories supported by that agency.

19 (2) UNIFORMITY AND STANDARDIZATION.—The
20 Director shall establish a policy to ensure uniformity
21 and standardization of the data collection required
22 under paragraph (1).

23 (3) Record-level data.—

24 (A) REQUIREMENT.—On an annual basis,25 beginning with the deadline under subpara-

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1graph (C), each Federal science agency shall2submit to the Director of the National Science3Foundation record-level data collected under4paragraph (1) in the form required by such Di-5rector.

6 (B) PREVIOUS DATA.—As part of the first 7 submission under subparagraph (A), each Fed-8 eral science agency, to the extent practicable, 9 shall also submit comparable record-level data 10 for the 5 years preceding the deadline under 11 subparagraph (C).

12 (C) DEADLINE.—The deadline under this 13 paragraph is a date that is not later than 2 14 vears after the date of enactment of this Act. 15 (b) REPORTING OF DATA.—The Director of the National Science Foundation shall publish statistical sum-16 mary data collected under this section, disaggregated and 17 cross-tabulated by race, ethnicity, gender, age, and years 18 since completion of doctoral degree, including in conjunc-19 20 tion with the National Science Foundation's report re-21 quired by section 37 of the Science and Technology Equal 22 Opportunities Act (42 U.S.C. 1885d; Public Law 96– 23 516).

SEC. 214. POLICIES FOR REVIEW OF FEDERAL RESEARCH GRANTS.

3 (a) IN GENERAL.—The Director, in collaboration
4 with the Director of the National Science Foundation,
5 shall identify information and best practices useful for
6 educating program officers and members of standing peer
7 review committees at Federal science agencies about—

8 (1) research on implicit bias based on gender,9 race, or ethnicity; and

10 (2) methods to minimize the effect of such bias
11 in the review of extramural and intramural Federal
12 research grants.

(b) GUIDANCE TO ALL FEDERAL SCIENCE AGEN14 CIES.—The Director shall disseminate the information
15 and best practices identified in subsection (a) to all Fed16 eral science agencies and provide guidance as necessary
17 on policies to implement such practices within each agen18 cy.

(c) ESTABLISHMENT OF POLICIES.—Consistent with
the guidance provided in subsection (b), Federal science
agencies shall maintain or develop and implement policies
and practices to minimize the effects of implicit bias in
the review of extramural and intramural Federal research
grants.

25 (d) REPORT TO CONGRESS.—Not later than 2 years 26 after the date of enactment of this Act, the Director shall f:\VHLC\041715\041715.143.xml (598062|1)

report to Congress on what steps all Federal science agen cies have taken to implement policies and practices to min imize the effects of bias in the review of extramural and
 intramural Federal research grants.

5 SEC. 215. COLLECTION OF DATA ON DEMOGRAPHICS OF 6 FACULTY.

7 (a) Collection of Data.—

8 (1) IN GENERAL.—Not later than 3 years after 9 the date of enactment of this Act, and at least every 10 5 years thereafter, the Director of the National 11 Science Foundation shall carry out a survey to col-12 lect institution-level data on the demographics of 13 STEM faculty, by broad fields of STEM, at dif-14 ferent types of institutions of higher education.

15 (2) CONSIDERATIONS.—To the extent prac16 ticable, the Director of the National Science Foun17 dation shall consider, by gender, race, ethnicity, citi18 zenship status, age, and years since completion of
19 doctoral degree—

20 (A) the number and percentage of faculty;
21 (B) the number and percentage of faculty
22 at each rank;

23 (C) the number and percentage of faculty
24 who are in nontenure-track positions, including
25 teaching and research;

1	(D) the number and percentage of faculty
2	who are reviewed for promotion, including ten-
3	ure, and the percentage of that number who are
4	promoted, including being awarded tenure;
5	(E) faculty years in rank;
6	(F) the number and percentage of faculty
7	to leave tenure-track positions;
8	(G) the number and percentage of faculty
9	hired, by rank; and
10	(H) the number and percentage of faculty
11	in leadership positions.
12	(b) EXISTING SURVEYS.—The Director of the Na-
13	tional Science Foundation—
14	(1) may carry out the requirements under sub-
15	section (a) by collaborating with statistical centers
16	at other Federal agencies to modify or expand, as
17	necessary, existing Federal surveys of higher edu-
18	cation; or
19	(2) may award a grant or contract to an insti-
20	tution of higher education or other nonprofit organi-
21	zation to design and carry out the requirements
22	under subsection (a).
23	(c) REPORTING DATA.—The Director of the National
24	Science Foundation shall publish statistical summary data
25	collected under this section, including as part of the Na-

tional Science Foundation's report required by section 37
 of the Science and Technology Equal Opportunities Act
 (42 U.S.C. 1885d; Public Law 96–516).

4 (d) AUTHORIZATION OF APPROPRIATIONS.—There
5 are authorized to be appropriated to the Director of the
6 National Science Foundation \$3,000,000 in each of fiscal
7 years 2016 through 2018 to develop and carry out the
8 initial survey required in subsection (a).

9 SEC. 216. CULTURAL AND INSTITUTIONAL BARRIERS TO EX10 PANDING THE ACADEMIC AND FEDERAL
11 STEM WORKFORCE.

12 (a) BEST PRACTICES AT INSTITUTIONS OF HIGHER13 EDUCATION.—

14 (1) DEVELOPMENT OF GUIDANCE.—Not later
15 than 6 months after the date of enactment of this
16 Act, the Director of the National Science Founda17 tion shall develop written guidance for institutions of
18 higher education on the best practices for—

(A) conducting periodic campus culture
surveys of STEM departments, with a particular focus on identifying any cultural or institutional barriers to or successful enablers for
the recruitment, retention, promotion, and
other indicators of participation and achievement, of women and underrepresented minori-

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ties in STEM degree programs and academic STEM careers; and

3 (B) providing educational opportunities, in-4 cluding workshops as described in subsection 5 (c), for STEM faculty and administrators to 6 learn about current research on implicit bias in 7 recruitment, evaluation, and promotion of fac-8 ulty in STEM and recruitment and evaluation 9 of undergraduate and graduate students in 10 STEM degree programs.

(2) EXISTING GUIDANCE.—In developing the
guidance in paragraph (1), the Director of the National Science Foundation shall utilize guidance already developed by the National Aeronautics and
Space Administration, the Department of Energy,
and the Department of Education.

17 (3) DISSEMINATION OF GUIDANCE.—The Direc18 tor of the National Science Foundation shall broadly
19 disseminate the guidance developed in paragraph (1)
20 to institutions of higher education that receive Fed21 eral research funding.

(4) REPORTS TO THE NATIONAL SCIENCE
FOUNDATION.—The Director of the National Science
Foundation shall develop a policy that—

1	(A) applies to, at a minimum, the institu-
2	tions classified under the Indiana University
3	Center for Postsecondary Research Carnegie
4	Classification on January 1, 2015, as a doc-
5	torate-granting university with a very high level
6	of research activity; and
7	(B) requires each institution identified in
8	subparagraph (A), not later than 3 years after
9	the date of enactment of this Act, to report to
10	the Director of the National Science Founda-
11	tion on activities and policies developed and im-
12	plemented based on the guidance provided in
13	paragraph (1).
14	(b) Best Practices at Federal Labora-
15	TORIES.—
16	(1) DEVELOPMENT OF GUIDANCE.—Not later
17	than 6 months after the date of enactment of this
18	Act, the Director shall develop written guidance for
19	Federal laboratories to develop and implement prac-
20	tices and policies to—
21	(A) conduct periodic laboratorywide culture
22	surveys of research personnel at all levels, with
23	a particular focus on identifying any cultural or
24	institutional barriers to the recruitment, reten-
25	tion, and success of women and underrep-

resented minorities in STEM careers at Federal
 laboratories; and

3 (B) provide educational opportunities, in4 cluding workshops as described in subsection
5 (c), for STEM research personnel to learn
6 about current research in implicit bias in re7 cruitment, evaluation, and promotion of re8 search personnel at Federal laboratories.

9 (2) ESTABLISHMENT OF POLICIES.—Consistent 10 with the guidance provided in paragraph (1), Fed-11 eral science agencies with Federal laboratories shall 12 maintain or develop and implement policies for their 13 respective Federal laboratories.

14 (c) Workshops To Address Cultural Barriers
15 To Expanding the Academic and Federal STEM
16 Workforce.—

17 (1) IN GENERAL.—Not later than 6 months 18 after the date of enactment of this Act, the Director 19 of the National Science Foundation shall recommend 20 a uniform policy for Federal science agencies to 21 carry out a program of workshops that educate 22 STEM department chairs at institutions of higher 23 education, senior managers at Federal laboratories, 24 and other federally funded researchers about meth-25 ods that minimize the effects of implicit bias in the career advancement, including hiring, tenure, pro motion, and selection for any honor based in part on
 the recipient's research record, of academic and Fed eral STEM researchers.

5 (2) INTERAGENCY COORDINATION.—The Direc-6 tor of the National Science Foundation shall ensure 7 that workshops supported under this subsection are 8 coordinated across Federal science agencies and 9 jointly supported as appropriate.

10 (3) MINIMIZING COSTS.—To the extent prac-11 ticable, workshops shall be held in conjunction with 12 national or regional STEM disciplinary meetings to 13 minimize costs associated with participant travel.

14 (4) PRIORITY FIELDS FOR ACADEMIC PARTICI-15 PANTS.—In considering the participation of STEM 16 department chairs and other academic researchers, 17 the Director shall prioritize workshops for the broad 18 fields of STEM in which the national rate of rep-19 resentation of women among tenured or tenure-track 20 faculty or non-faculty researchers at doctorate-21 granting institutions of higher education is less than 22 25 percent, according to the most recent data avail-23 able from the National Center for Science and Engi-24 neering Statistics.

1	(5) Organizations eligible to carry out
2	WORKSHOPS.—Federal science agencies may carry
3	out the program of workshops under this subsection
4	by making grants to eligible organizations. In addi-
5	tion to any other organizations made eligible by the
6	Federal science agencies, the following organizations
7	are eligible for grants under this subsection:
8	(A) Nonprofit scientific and professional
9	societies and organizations that represent one
10	or more STEM disciplines.
11	(B) Nonprofit organizations that have the
12	primary mission of advancing the participation
13	of women or underrepresented minorities in
14	STEM.
15	(6) CHARACTERISTICS OF WORKSHOPS.—The
16	workshops shall have the following characteristics:
17	(A) Invitees to workshops shall include at
18	least—
19	(i) the chairs of departments in the
20	relevant STEM discipline or disciplines
21	from at least the top 50 institutions of
22	higher education, as determined by the
23	amount of Federal research and develop-
24	ment funds obligated to each institution of
25	higher education in the prior year based on

1	data available from the National Science
2	Foundation; and
3	(ii) in the case of Federal laboratories,
4	individuals with personnel management re-
5	sponsibilities comparable to those of an in-
6	stitution of higher education department
7	chair.
8	(B) Activities at the workshops shall in-
9	clude research presentations and interactive dis-
10	cussions or other activities that increase the
11	awareness of the existence of implicit bias in re-
12	cruitment, hiring, tenure review, promotion, and
13	other forms of formal recognition of individual
14	achievement for faculty and other federally
15	funded STEM researchers and shall provide
16	strategies to overcome such bias.
17	(C) Research presentations and other
18	workshop programs, as appropriate, shall in-
19	clude a discussion of the unique challenges
20	faced by underrepresented sub-groups, includ-
21	ing minority women, minority men, and first
22	generation minority graduates in research.
23	(D) Workshop programs shall include in-
24	formation on best practices for mentoring un-

1	dergraduate and graduate women and under-
2	represented minority students.
3	(7) DATA ON WORKSHOPS.—Any proposal for
4	funding by an organization seeking to carry out a
5	workshop under this subsection shall include a de-
6	scription of how such organization will—
7	(A) collect data on the rates of attendance
8	by invitees in workshops, including information
9	on the home institution and department of
10	attendees, and the rank of faculty attendees;
11	(B) conduct attitudinal surveys on work-
12	shop attendees before and after the workshops;
13	and
14	(C) collect follow-up data on any relevant
15	institutional policy or practice changes reported
16	by attendees not later than one year after at-
17	tendance in such a workshop.
18	(8) Report to NSF.—Organizations receiving
19	funding to carry out workshops under this sub-
20	section shall report the data required in paragraph
21	(7) to the Director of the National Science Founda-
22	tion in such form as required by such Director.
23	(d) REPORT TO CONGRESS.—Not later than 4 years
24	after the date of enactment of this Act, the Director of

the National Science Foundation shall submit a report to
 Congress that includes—

3 (1) a summary and analysis of the types and
4 frequency of activities and policies developed and
5 carried out under subsection (a) based on the re6 ports submitted under paragraph (4) of such sub7 section; and

8 (2) a description and evaluation of the status 9 and effectiveness of the program of workshops re-10 quired under subsection (c), including a summary of 11 any data reported under paragraph (8) of such sub-12 section.

(e) AUTHORIZATION OF APPROPRIATIONS.—There
are authorized to be appropriated to the Director of the
National Science Foundation \$2,000,000 in each of fiscal
years 2016 through 2020 to carry out this section.

17 SEC. 217. RESEARCH AND DISSEMINATION AT THE NA-18 TIONAL SCIENCE FOUNDATION.

(a) IN GENERAL.—The Director of the National
Science Foundation shall award research grants and carry
out dissemination activities consistent with the purposes
of this subtitle, including—

(1) research grants to analyze the record-leveldata collected under section 4 and section 6, con-

1	sistent with policies to ensure the privacy of individ-
2	uals identifiable by such data;
3	(2) research grants to study best practices for

4 work-life accommodation;

5 (3) research grants to study the impact of poli-6 cies and practices that are implemented under this 7 subtitle or that are otherwise consistent with the 8 purposes of this subtitle;

9 (4) collaboration with other Federal science 10 agencies and professional associations to exchange 11 best practices, harmonize work-life accommodation 12 policies and practices, and overcome common bar-13 riers to work-life accommodation; and

14 (5) collaboration with institutions of higher
15 education in order to clarify and catalyze the adop16 tion of a coherent and consistent set of work-life ac17 commodation policies and practices.

(b) AUTHORIZATION OF APPROPRIATIONS.—There
are authorized to be appropriated to the Director of the
National Science Foundation \$5,000,000 in each of fiscal
years 2016 through 2020 to carry out this section.

22 SEC. 218. REPORT TO CONGRESS.

Not later than 4 years after the date of enactment
of this Act, the Director shall submit a report to Congress
that includes—

1	(1) a description and evaluation of the status
2	and usage of caregiver policies at all Federal science
3	agencies, including any recommendations for revis-
4	ing or expanding such policies;
5	(2) a description of any significant updates to
6	the policies for review of Federal research grants re-
7	quired under section 5, and any evidence of the im-
8	pact of such policies on the review or awarding of
9	Federal research grants; and
10	(3) a description and evaluation of the status of
11	Federal laboratory policies and practices required
12	under section 7(b), including any recommendations
13	for revising or expanding such policies.
14	SEC. 219. NATIONAL SCIENCE FOUNDATION SUPPORT FOR
15	INCREASING DIVERSITY AMONG STEM FAC-
16	ULTY AT INSTITUTIONS OF HIGHER EDU-
17	CATION.
18	(a) Grants.—The Director of the National Science
19	Foundation shall award grants to institutions of higher
20	education (or consortia thereof) for the development of in-
21	novative reform efforts designed to increase the recruit-
22	ment, retention, and advancement of individuals from
22 23	ment, retention, and advancement of individuals from underrepresented minority groups in academic STEM ca-

(b) MERIT REVIEW; COMPETITION.—Grants shall be
 awarded under this section on a merit-reviewed, competi tive basis.

4 (c) USE OF FUNDS.—Activities supported by grants
5 under this section may include—

6 (1) institutional assessment activities, such as 7 data analyses and policy review, in order to identify 8 and address specific issues in the recruitment, reten-9 tion, and advancement of faculty members from 10 underrepresented minority groups;

(2) implementation of institution-wide improvements in workload distribution, such that faculty
members from underrepresented minority groups are
not disadvantaged in the amount of time available to
focus on research, publishing papers, and engaging
in other activities required to achieve tenure status
and run a productive research program;

(3) development and implementation of training
courses for administrators and search committee
members to ensure that candidates from underrepresented minority groups are not subject to implicit
biases in the search and hiring process;

(4) development and hosting of intra- or inter-institutional workshops to propagate best practices

in recruiting, retaining, and advancing faculty mem bers from underrepresented minority groups;

3 (5) professional development opportunities for
4 faculty members from underrepresented minority
5 groups;

6 (6) activities aimed at making undergraduate
7 STEM students from underrepresented minority
8 groups aware of opportunities for academic careers
9 in STEM fields;

(7) activities to identify and engage exceptional
graduate students from underrepresented minority
groups at various stages of their studies and to encourage them to enter academic careers; and

(8) other activities consistent with subsection
(a), as determined by the Director of the National
Science Foundation.

17 (d) SELECTION PROCESS.—

18 (1) APPLICATION.—An institution of higher 19 education (or consortia thereof) seeking funding 20 under this section shall submit an application to the 21 Director of the National Science Foundation at such 22 time, in such manner, and containing such informa-23 tion and assurances as such Director may require. 24 The application shall include, at a minimum, a de-25 scription of—

(A) the reform effort that is being pro posed for implementation by the institution of
 higher education;

4 (B) any available evidence of specific dif-5 ficulties in the recruitment, retention, and ad-6 vancement of faculty members from underrep-7 resented minority groups in STEM academic 8 careers within the institution of higher edu-9 cation submitting an application, and how the 10 proposed reform effort would address such 11 issues;

12 (C) how the institution of higher education
13 submitting an application plans to sustain the
14 proposed reform effort beyond the duration of
15 the grant; and

16 (D) how the success and effectiveness of 17 the proposed reform effort will be evaluated and 18 assessed in order to contribute to the national 19 knowledge base about models for catalyzing in-20 stitutional change.

(2) REVIEW OF APPLICATIONS.—In selecting
grant recipients under this section, the Director of
the National Science Foundation shall consider, at a
minimum—

1	(A) the likelihood of success in under-
2	taking the proposed reform effort at the institu-
3	tion of higher education submitting the applica-
4	tion, including the extent to which the adminis-
5	trators of the institution are committed to mak-
6	ing the proposed reform effort a priority;
7	(B) the degree to which the proposed re-
8	form effort will contribute to change in institu-
9	tional culture and policy such that greater value
10	is placed on the recruitment, retention, and ad-
11	vancement of faculty members from underrep-
12	resented minority groups;
13	(C) the likelihood that the institution of
14	higher education will sustain or expand the pro-
15	posed reform effort beyond the period of the
16	grant; and
17	(D) the degree to which evaluation and as-
18	sessment plans are included in the design of the
19	proposed reform effort.
20	(3) GRANT DISTRIBUTION.—The Director of
21	the National Science Foundation shall ensure, to the
22	extent practicable, that grants awarded under this
23	section are made to a variety of types of institutions
24	of higher education.

(e) AUTHORIZATION OF APPROPRIATIONS.—There
 are authorized to be appropriated to the Director of the
 National Science Foundation \$10,000,000 in each of fiscal
 years 2016 through 2020 to carry out this section.

5 SEC. 220. NATIONAL SCIENCE FOUNDATION SUPPORT FOR 6 BROADENING PARTICIPATION IN UNDER7 GRADUATE STEM EDUCATION.

8 (a) GRANTS.—The Director of the National Science 9 Foundation shall award grants to institutions of higher education (or consortia thereof) to implement or expand 10 11 research-based reforms in undergraduate STEM edu-12 cation for the purpose of recruiting and retaining students from minority groups who are underrepresented in STEM 13 fields, with a priority focus on natural science and engi-14 15 neering fields.

16 (b) MERIT REVIEW; COMPETITION.—Grants shall be
17 awarded under this section on a merit-reviewed, competi18 tive basis.

19 (c) USE OF FUNDS.—Activities supported by grants20 under this section may include—

(1) implementation or expansion of innovative,
research-based approaches to broaden participation
of underrepresented minority groups in STEM
fields;

(2) implementation or expansion of bridge, co hort, tutoring, or mentoring programs designed to
 enhance the recruitment and retention of students
 from underrepresented minority groups in STEM
 fields;

6 (3) implementation or expansion of outreach 7 programs linking institutions of higher education 8 and K-12 school systems in order to heighten 9 awareness among pre-college students from under-10 represented minority groups of opportunities in col-11 lege-level STEM fields and STEM careers;

(4) implementation or expansion of faculty development programs focused on improving retention
of undergraduate STEM students from underrepresented minority groups;

16 (5) implementation or expansion of mechanisms
17 designed to recognize and reward faculty members
18 who demonstrate a commitment to increasing the
19 participation of students from underrepresented mi20 nority groups in STEM fields;

(6) expansion of successful reforms aimed at increasing the number of STEM students from underrepresented minority groups beyond a single course
or group of courses to achieve reform within an entire academic unit, or expansion of successful reform

efforts beyond a single academic unit to other
 STEM academic units within an institution of high er education;

4 (7) expansion of opportunities for students from
5 underrepresented minority groups to conduct STEM
6 research in industry, at Federal labs, and at inter7 national research institutions or research sites;

8 (8) provision of stipends for students from
9 underrepresented minority groups participating in
10 research;

(9) development of research collaborations between research-intensive universities and primarily
undergraduate minority-serving institutions;

(10) support for graduate students and postdoctoral fellows from underrepresented minority
groups to participate in instructional or assessment
activities at primarily undergraduate institutions, including primarily undergraduate minority-serving institutions and two-year institutions of higher education; and

(11) other activities consistent with subsection
(a), as determined by the Director of the National
Science Foundation.

24 (d) Selection Process.—

1	(1) APPLICATION.—An institution of higher
2	education (or consortia thereof) seeking a grant
3	under this section shall submit an application to the
4	Director of the National Science Foundation at such
5	time, in such manner, and containing such informa-
6	tion and assurances as such Director may require.
7	The application shall include, at a minimum—
8	(A) a description of the proposed reform
9	effort;
10	(B) a description of the research findings
11	that will serve as the basis for the proposed re-
12	form effort or, in the case of applications that
13	propose an expansion of a previously imple-
14	mented reform, a description of the previously
15	implemented reform effort, including data about
16	the recruitment, retention, and academic
17	achievement of students from underrepresented
18	minority groups;
19	(C) evidence of an institutional commit-
20	ment to, and support for, the proposed reform
21	effort, including a long-term commitment to im-
22	plement successful strategies from the current
23	reform beyond the academic unit or units in-
24	cluded in the grant proposal;

1 (D) a description of existing or planned in-2 stitutional policies and practices regarding fac-3 ulty hiring, promotion, tenure, and teaching as-4 signment that reward faculty contributions to 5 improving the education of students from 6 underrepresented minority groups in STEM; 7 and

8 (E) how the success and effectiveness of 9 the proposed reform effort will be evaluated and 10 assessed in order to contribute to the national 11 knowledge base about models for catalyzing in-12 stitutional change.

(2) REVIEW OF APPLICATIONS.—In selecting
grant recipients under this section, the Director of
the National Science Foundation shall consider, at a
minimum—

(A) the likelihood of success of the proposed reform effort at the institution submitting the application, including the extent to
which the faculty, staff, and administrators of
the institution are committed to making the
proposed institutional reform a priority of the
participating academic unit or units;

24 (B) the degree to which the proposed re-25 form effort will contribute to change in institu-

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tional culture and policy such that greater value
 is placed on faculty engagement in the retention
 of students from underrepresented minority
 groups;

(C) the likelihood that the institution will sustain or expand the proposed reform effort beyond the period of the grant; and

8 (D) the degree to which evaluation and as9 sessment plans are included in the design of the
10 proposed reform effort.

(3) PRIORITY.—For applications that include
an expansion of existing reforms beyond a single
academic unit, the Director of the National Science
Foundation shall give priority to applications for
which a senior institutional administrator, such as a
dean or other administrator of equal or higher rank,
serves as the principal investigator.

(4) GRANT DISTRIBUTION.—The Director of
the National Science Foundation shall ensure, to the
extent practicable, that grants awarded under this
section are made to a variety of types of institutions
of higher education, including two-year and minority-serving institutions of higher education.

24 (e) Education Research.—

1 (1) IN GENERAL.—All grants made under this 2 section shall include an education research compo-3 nent that will support the design and implementa-4 tion of a system for data collection and evaluation 5 of proposed reform efforts in order to build the 6 knowledge base on promising models for increasing 7 recruitment and retention of students from under-8 represented minority groups in STEM education at 9 the undergraduate level across a diverse set of insti-10 tutions.

11 (2) DISSEMINATION.—The Director of the Na-12 tional Science Foundation shall coordinate with rel-13 evant Federal agencies in disseminating the results of the research under this subsection to ensure that 14 15 best practices in broadening participation in STEM 16 education at the undergraduate level are made read-17 ily available to all institutions of higher education, 18 other Federal agencies that support STEM pro-19 grams, non-Federal funders of STEM education, 20 and the general public.

(f) AUTHORIZATION OF APPROPRIATIONS.—There
are authorized to be appropriated to the Director of the
National Science Foundation \$15,000,000 in each of fiscal
years 2016 through 2020 to carry out this section.

1 SEC. 221. DEFINITIONS.

2 In this subtitle:

3 (1) DIRECTOR.—The term "Director" means
4 the Director of the Office of Science and Technology
5 Policy ("OSTP").

6 (2) FEDERAL LABORATORY.—The term "Fed7 eral laboratory" has the meaning given such term in
8 section 4 of the Stevenson-Wydler Technology Inno9 vation Act of 1980 (15 U.S.C. 3703).

10 (3) FEDERAL SCIENCE AGENCY.—The term
11 "Federal science agency" means any Federal agency
12 with at least \$100,000,000 in research and develop13 ment expenditures in fiscal year 2014.

(4) INSTITUTION OF HIGHER EDUCATION.—The
term "institution of higher education" has the
meaning given such term in section 101(a) of the
Higher Education Act of 1965 (20 U.S.C. 1001(a)).

18 (5) STEM.—The term "STEM" means the
academic and professional disciplines of science,
technology, engineering, and mathematics.

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